

## X-HALF CUT N-TYPE serie TOPCon

**420/430<sub>Wp</sub>**  
Power

**TOPCon** Cells

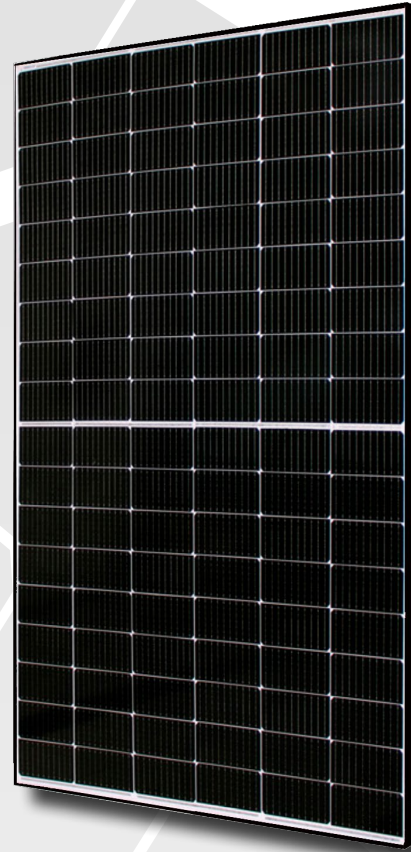
**5400 PA**  
Mechanical Load

**182x91mm**  
Cell Size

**22.02%**  
efficiency

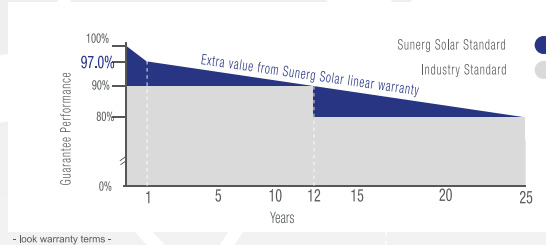
**15** years  
product warranty

**25** years  
linear warranty



X-HALF CUT N-Type serie TOPCON+ involves the introduction of a thin oxide layer between the metal contacts and the silicon wafer, which brings significant improvements in cell conversion efficiency and power generation performance.

### LINEAR WARRANTY



- look warranty terms -

### CORRESPOND TO

| UNI9177 | PV CYCLE | CE |

UNI EN ISO 9001:2008  
UNI EN ISO 14001:2004  
UNI EN BS OHSAS 18001:2007

| Quality management system  
| Standards for environmental management system  
| International standards for occupational health and safety

ELECTRICAL DATA (STC)		XMHCTO420+H	XMHCTO425+H	XMHCTO430+H
Open circuit Voltage	(Voc)	37.89 V	38.07 V	38.25 V
Voltage a Pmax.	(Vmp)	31.36 V	31.55 V	31.73 V
Short-circuit current	(Isc)	14.15 A	14.67 A	14.31 A
Current at Pmax.	(Imp)	13.40 A	13.48 A	13.56 A
Nominal Peak Power (Pmax)		420 Wp	425 Wp	430 Wp
Module Efficiency		21.51%	21.76%	22.02%
Power output tolerance			-0/+5 W	
Maximum voltage			1500 V	
Maximum series fuse rating			25 A	
Limiting reverse current			20 A	
Operating Temperature			- 40°C to 85°C	

\* STC (Standard test conditions)

Tolerance electric measurement and Power Output  $\pm 3\%$

Irradiance 1000 w/m<sup>2</sup>, temperature 25°C, AM= 1.5

### ELECTRICAL PARAMETERS AT NOMINAL MODULE OPERATING TEMPERATURE (NMOT)

Peak Power	(Pmax)	318.0 W	321.8 W	325.6 W
Open Circuit Voltage	(Voc)	36.00 V	36.20 V	36.30 V
Short Circuit Current	(Isc)	11.43 A	11.50 A	11.56 A
MPP Voltage	(Vmp)	29.80 V	30.00 V	30.20 V
MPP Current	(Imp)	10.67 A	10.73 A	10.78 A

\* NMOT (Nominal Module Operating Temperature)

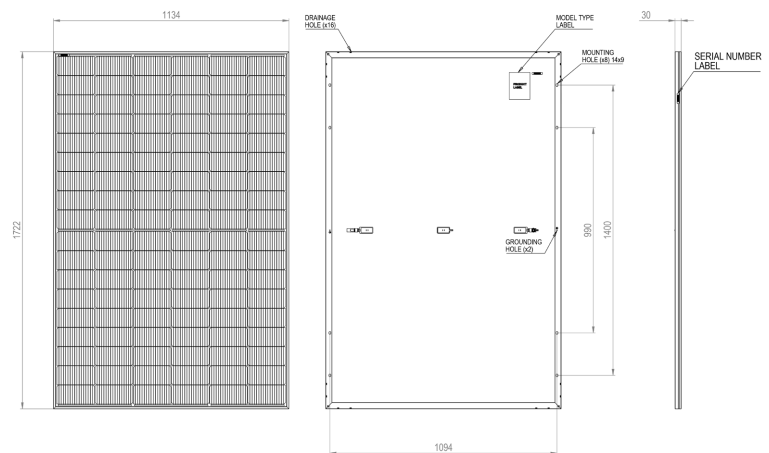
Irradiance 800 w/m<sup>2</sup>, temperature 20°C, wind speed 1 m/s

### TEMPERATURE COEFFICIENT

Pmax Temperature Coefficient	<b>-0.316% / °C</b>
Voc Temperature Coefficient	<b>-0.249% / °C</b>
Isc Temperature Coefficient	<b>0.045% / °C</b>

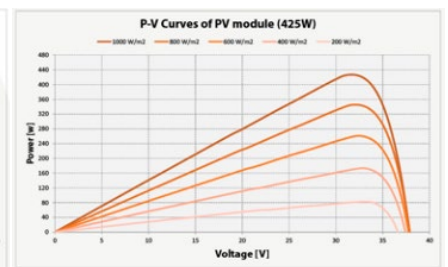
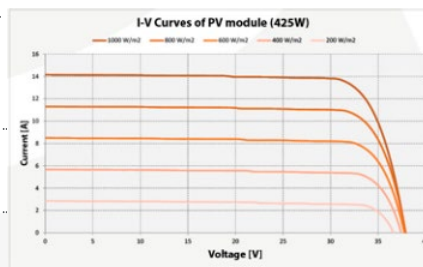
### MECHANICAL DATA

Maximum Load	<b>5400 Pa</b>
Dimensions (mm)	<b>1722 x 1134 x 30</b>
Weight (Kg)	<b>20.2</b>
Solar cells type	<b>N type Mono</b>
No. solar cells	<b>108 (6x18)</b>
Dim. solar cells	<b>182x91mm +/-1mm</b>



### GENERAL INFORMATION

Front Glass	<b>3,2 mm, Tempered solar glass</b>
Frame	<b>Anodized aluminum alloy, with twin-wall profile and drainage holes</b>
Junction Box	<b>IP68 Rated with 3 Bypass diodes</b>
Output Cable	<b>4.0mm<sup>2</sup>, 1100mm length, MC4 compatible connectors</b>



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